

PATENT

Attorney Docket No: BRI/023

Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (previously presented) An electronic detonator for use in mining or blasting and having firing-readiness diagnostics, comprising an igniter and electronic circuitry configured and/or programmed to perform one or more firing-readiness diagnostics on said electronic detonator.
2. (canceled)
3. (previously presented) The electronic detonator of claim 1, wherein said igniter includes an ignition element, and said electronic circuitry comprises a continuity check module.
4. (previously presented) The electronic detonator of claim 3, wherein said electronic detonator includes an application-specific integrated circuit that contains said electronic circuitry.
5. (previously presented) The electronic detonator of claim 4, wherein said igniter is hermetically sealed, and said ignition element is a bridgewire.
6. (canceled)
7. (previously presented) The electronic detonator of claim 1, wherein said igniter includes a firing capacitor, and said electronic circuitry is configured and/or programmed to verify that the firing capacitor has a capacitance above a first value and below a second value.
8. (canceled)
9. (canceled)
10. (previously presented) The electronic detonator of claim 7, wherein said igniter further includes an ignition element, and said electronic circuitry includes a continuity check module.
11. (previously presented) The electronic detonator of claim 10, wherein said igniter is hermetically sealed, and said ignition element is a bridgewire.
12. (previously presented) An electronically connected system for use in mining or blasting comprising:

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- a) a master device;
 - b) a bus connected to said master device; and,
 - c) a plurality of electronic detonators connected to said bus, each said electronic detonator comprising an igniter and electronic circuitry configured and/or programmed to perform one or more electronic detonator firing-readiness diagnostics.
13. (previously presented) The electronically connected system of claim 12, wherein said igniter includes a firing capacitor, and said electronic circuitry is configured and/or programmed to verify that the firing capacitor has a capacitance above a first value and below a second value.
14. (previously presented) The electronically connected system of claim 13, wherein said igniter further includes an ignition element, and said electronic circuitry includes a continuity check module.
15. (previously presented) The electronically connected system of claim 14, wherein said igniter is hermetically sealed, and said ignition element is a bridgewire.
- 16-21. (canceled)